PLANNING AHEAD WITH . . .

Glass

FOR MORE ENJOYABLE LIVING

LIBBEY · OWENS · FORD GLASS COMPANY

L O F

MANY NEW IDEAS have been developed in home construction and decoration in recent years. Most prominent among them has been the greater use of glass. The purpose of this book is to help you see what glass can do for your home . . . to show you how you can use it to add charm and beauty to every room . . . how it can give interiors a more spacious, more cheerful feeling . . . how modern glass can make your home more comfortable, and easier to clean.

GLASS IS A VERSATILE MATERIAL. It can be used in many more ways than we can show here. But these ideas can be adapted, if necessary, by you and your architect to fit your individual needs and desires . . . to provide more livability, more enjoyment.

AND REMEMBER THIS . . . glass can do as much for the small house as the large, perhaps more. It adds smart, individual touches that mark your home as up to date . . . makes it the kind of place that will be a constant source of pride and satisfaction to all your family . . . a home that will win the admiration of all who see it.

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VITROLITE • THERMOPANE • TUF-FLEX • BONDERMETIC SEAL

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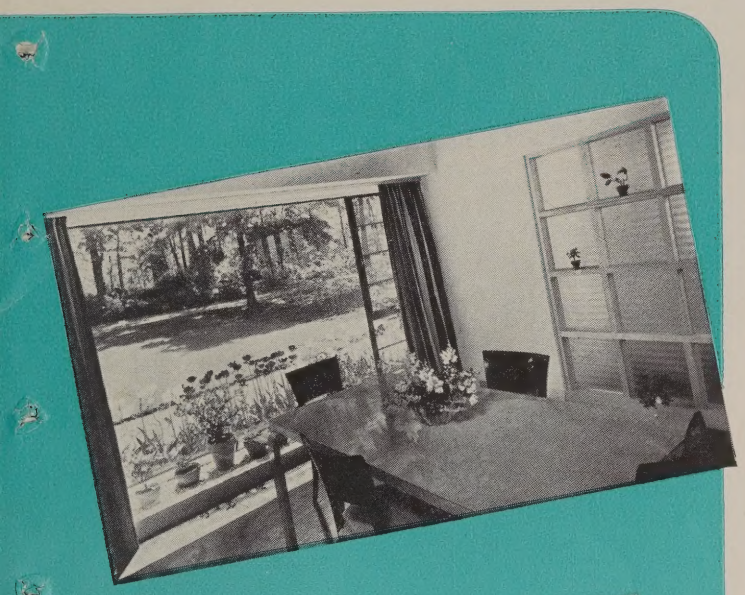
FOR MORE CHEERFUL, MORE INTERESTING ROOMS

"Open" THE WALLS WITH Glass



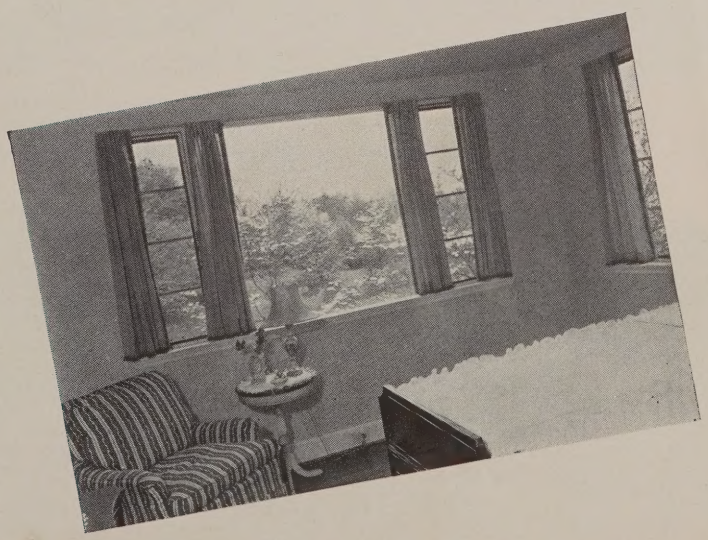
● Cheerfulness goes hand in hand with daylight and outdoor beauty.

And so, why not plan to bring in more daylight and make the most of outdoor views? Open your rooms to both—with glass.

Perhaps you've noticed the trend to larger windows in recent years. Why? Not just to be different—but because architects and owners have found through experience that homes with greater window areas are more cheerful, more pleasant places in which to live. They have a more spacious feel . . . they permit enjoyment of the beauties of the ever-changing landscape. Such homes capitalize on the often taken-for-granted ability of glass to let your eyes roam to the outdoors while you sit cozily inside.

You might wonder about privacy. Your architect can take care of that by careful landscaping . . . by facing larger windows away from passing traffic . . . or by using beautiful translucent architectural glass that brings in the light but guards your privacy.

No longer need you worry about excessive heat losses where large windows are used . . . even in cold climates. That problem has been answered with Thermopane—the Libbey·Owens·Ford windowpane that insulates. Thermopane allows you



to enjoy the charm of bigger windows with comfort and heat savings you'd never imagine possible in cold weather. Thermopane consists of two or more panes of glass, with a hermetically-sealed dead air space between. You'll find a description of Thermopane on pages 22 and 23. It's one of the important "better things" that technical research and industrial progress have made available for your new home.

Your architect is familiar with the many ways glass can give your home greater beauty, charm, comfort and a feeling of greater spaciousness. These and other benefits are summed up in the term "DAYLIGHT ENGINEERING" . . . the intelligent use of glass to achieve predetermined, desired results. Ask your architect to include the many advantages of Daylight Engineering in the design of every room of your home.

CHOOSE THE TYPE OF WINDOW THAT BEST FITS YOUR NEEDS

● Libbey·Owens·Ford does not make windows . . . only the glass with which they are glazed. But we wish to call to your attention several types of windows commonly used in modern home construction.

PICTURE WINDOWS

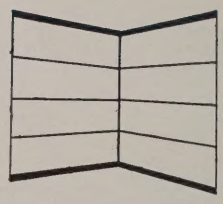
You will want a large window in many rooms of your home. The big area of clear glass presents an unobstructed view of the outdoors. It brings in beauty—brightens and livens the whole room. You can provide ventilation with windows which open on either side, or a louvered opening above or below the main window.

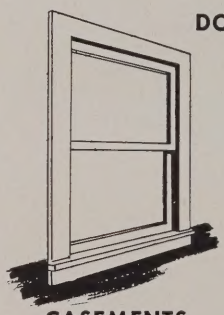
BAY

You may want your Picture Window projected into a bay. It provides an area for a window seat, or an indoor flower garden. And it tends to give the room a more spacious feeling.

CORNER WINDOWS

Provide a broader view and bring daylight in from two directions. Widely used in recent years, they are very popular with homeowners who have them.





DOUBLE-HUNG WINDOWS

In wood or metal. This is the familiar type that slides up and down. Such windows are available in a wide range of types and sizes to meet almost any requirement for daylighting and ventilation.

CASEMENTS

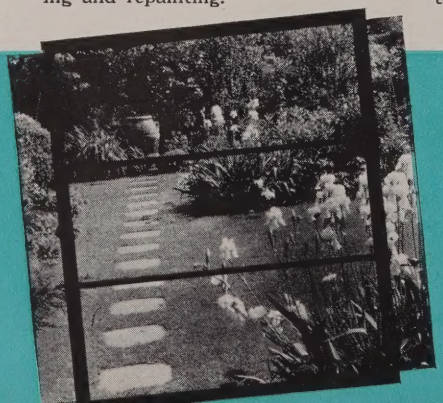
In metal or wood. Casement windows swing in or out—some of them are operated by a mechanical device on the inside window sill. They are available in a wide range of types and sizes.

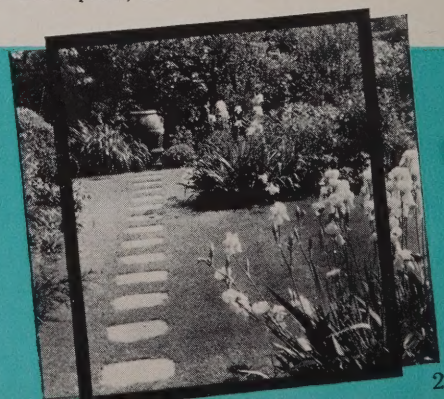
A WORD ON WINDOW DESIGN . . .

This is a familiar type of window, with the glass divided into small panes. Note how it cuts up the view, prevents full enjoyment of the scene.

A step to better visibility. This window is in keeping with modern trends. Such a window offers benefits in easier cleaning and repainting.

This window provides an unobstructed view. In effect, it's a beautiful mural you can enjoy the year 'round. Easier to clean and repaint, too.

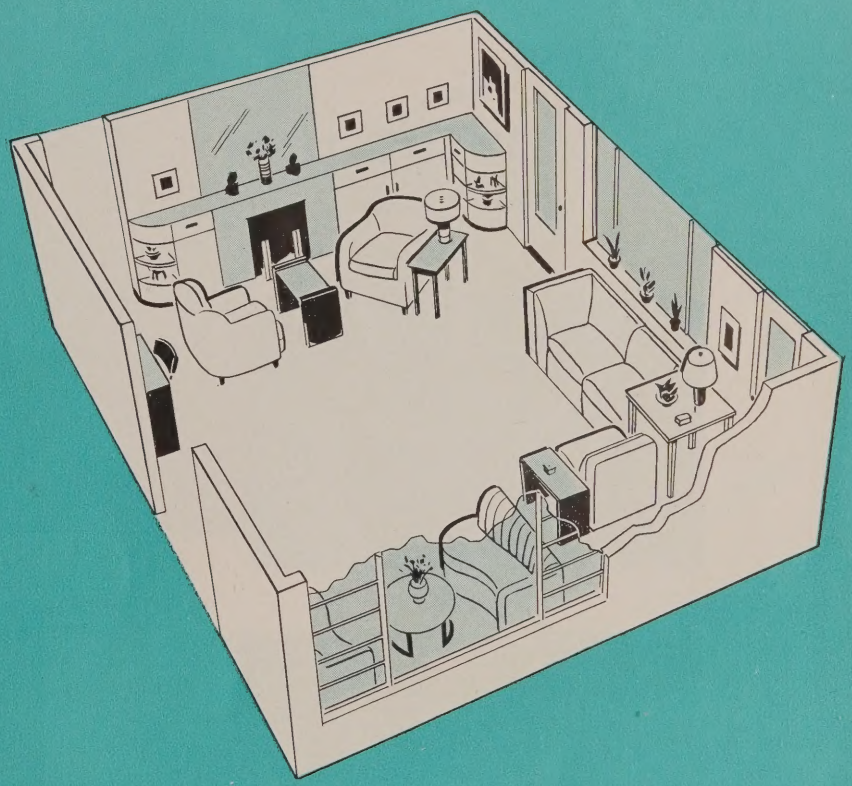




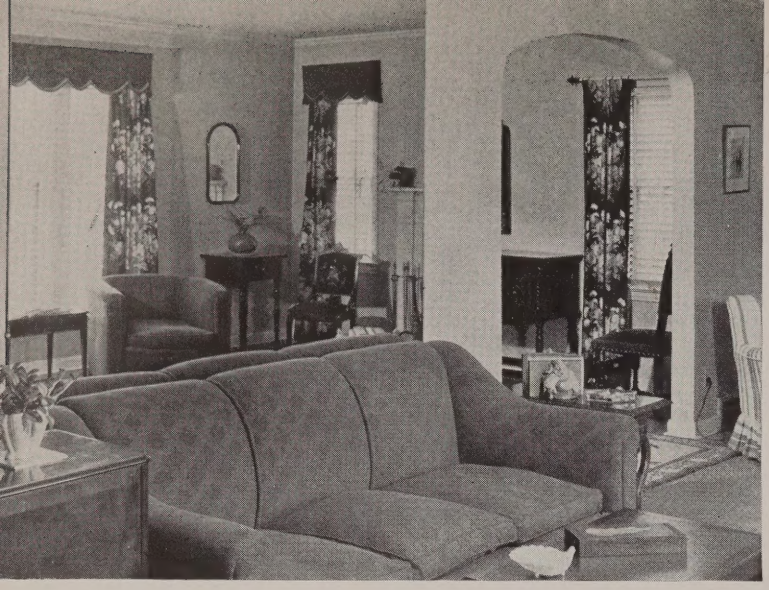
GLASS PUTS LIFE IN THE Living room

● Glass has glamor. It offers boundless opportunities to give your living room a brighter, cheerier atmosphere—and a feeling of pleasant spaciousness. Glass is a practical material, too. It's easy to clean. Its finish is unharmed by spilled liquids. And it never needs refinishing.

● Glass can put zest into every part of your living room. You'll want to make the most of the outdoor view with a huge Picture Window glazed with L·O·F Thermopane. Behind the sofa you can project a dynamic extension of the entire room with a tall, broad mirror. And a mirror will dress up the mantel, too. Glass is not relegated to the walls alone. Oh, no! For an unusual flavor, make one of your tables all glass . . . use glass shelves for knickknacks, and a graceful sweep of glass along your stairway. There's no end to the things you can do with glass to liven up your living room. Try it and see.

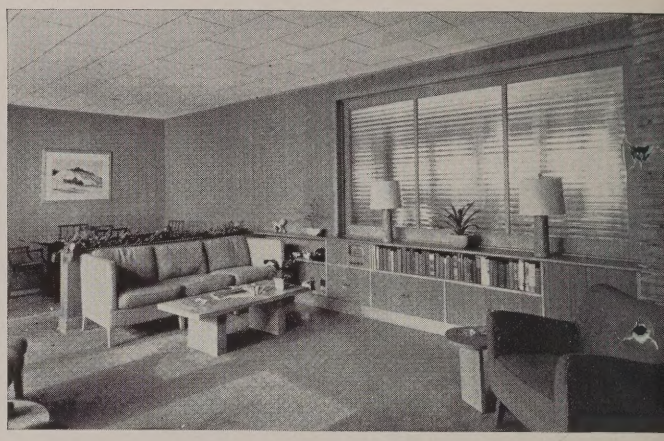


COLORFUL MURALS the year-round—when you have big Picture Windows like these. They lift the room out of the ordinary, flood it with cheerful sunshine. And, because they're glazed with Thermopane, comfort is not jeopardized in winter.



A WALL SPRINGS TO LIFE under the clear magic of a mirror, placed behind the sofa, where it can "double" the coloring of the room. Crowded rooms take on new spaciousness when the wall is "moved back" with a mirror.

ATTRACTIVE "INSIDE" WINDOW of fluted decorative glass brightens and enlivens what might otherwise be a drab and uninteresting wall. Use this lovely glass in windows when you want to cut off an undesirable view.



PRACTICAL AND CLEVER . . . this table with a top of clear glass. It comes sparkling clean, like new, no matter what you spill on it.

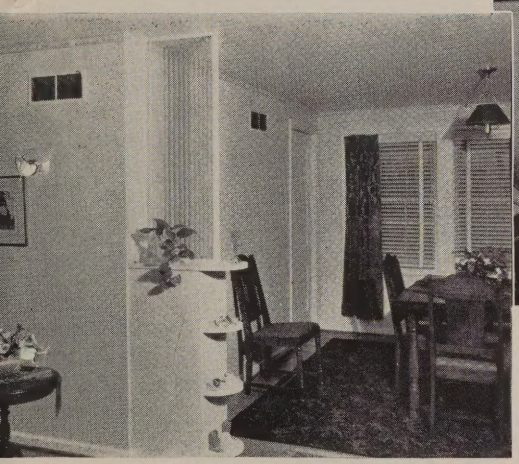
CHARMING BACKGROUND for your favorite table or chest. Use an occasional mirror of a style that harmonizes with your furnishings.

COMPLEMENT TO A FIREPLACE . . . a crisp, unframed mirror. It brightens the whole room by reflecting daylight from a window.

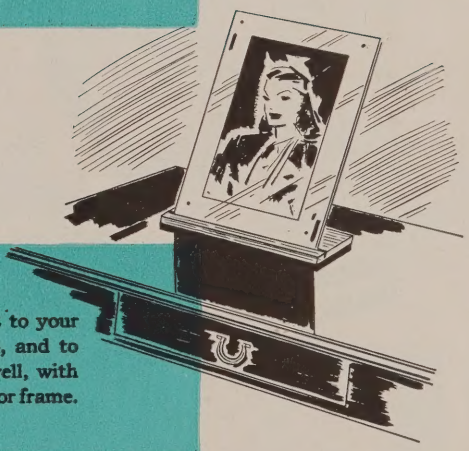
NO HARM CAN COME from spilled ink or frequent washing when your desk is topped with clear glass.

BEAUTY AND CONVENIENCE are combined in this unusually attractive fireplace faced with colorful Vitrolite. It comes sparkling clean with a damp cloth. Note the glass shelves backed with mirrors.

GUESTS WILL APPRECIATE this handy, full-length mirror. Fine for you, too, for a last look before departure.



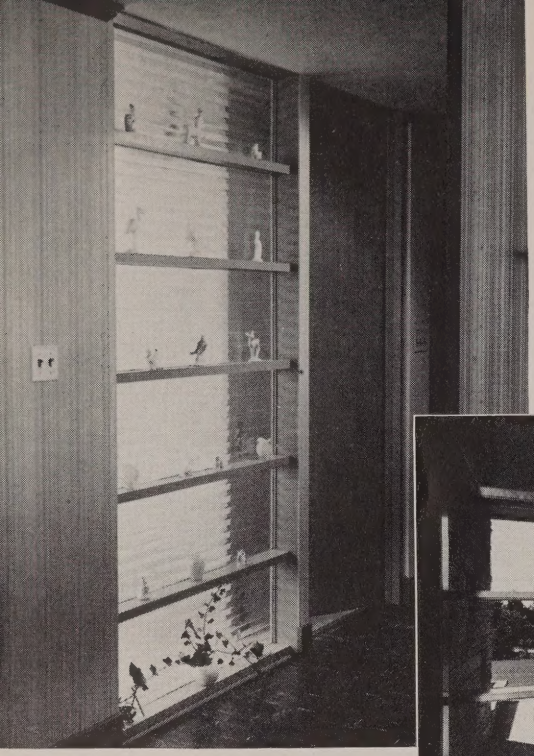
CURE DARK WALL AREAS with an attractive partition of fluted glass between the living and dining rooms.



DO JUSTICE to your favorite photo, and to the room as well, with a lustrous mirror frame.

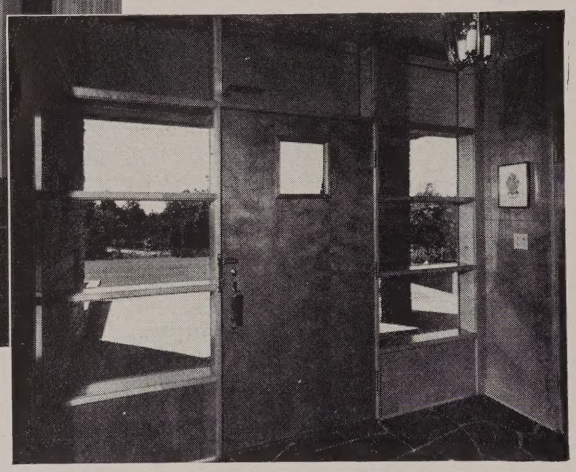
LOVELY TO LOOK AT—and sensible. This charming table has stain-proof glass for its surface, and you can see your favorite magazine underneath.

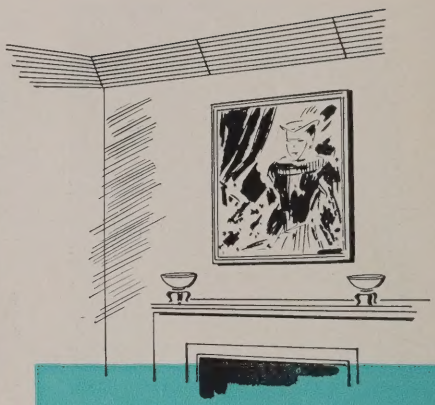
DRAMATIZE YOUR STAIRWAY with a two-story bay window, glazed with Thermopane for insulation.



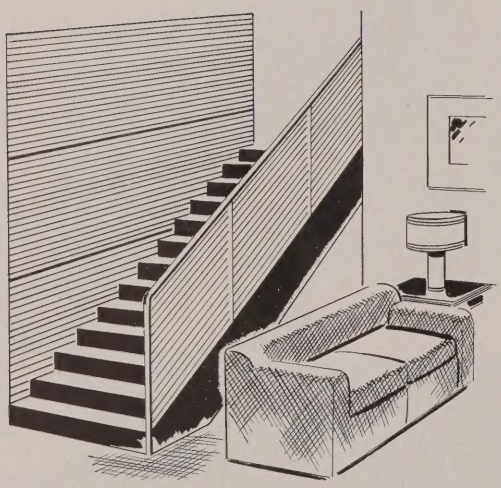
BRIGHTEN THE HALLWAY Photograph at left shows how a light-transmitting panel of Louvrex glass can double as a what-not shelf.

Below—If you want to see who's at the door, use clear panes at one or both sides.





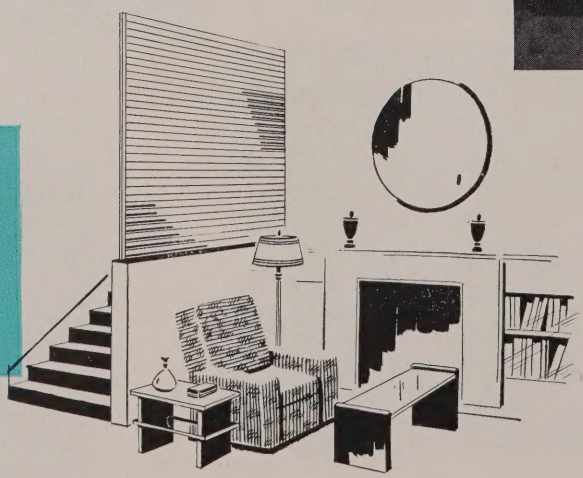
A LIGHT TROUGH fitted with translucent glass is ideal, diffuses light softly, evenly throughout the room.



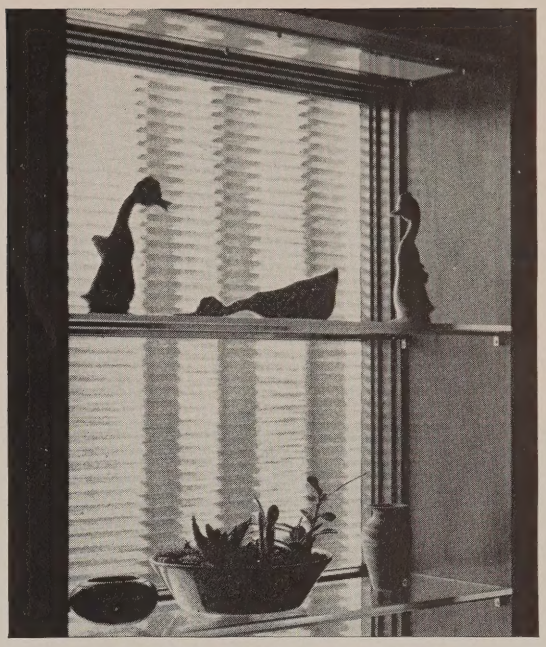
NO DARK STAIRWAYS when a translucent glass partition shuts off the steps without shutting out light.

THIS STUNNING TABLE can be made of Tuf-flex, the Libbey · Owens · Ford glass that is tempered for extra strength. What a welcome addition to a living room!

VERY ATTRACTIVE . . . a stair panel of sparkling fluted glass. It transmits light from the room onto the steps. And it's so easy to clean.



FAVORITE LOUNGING SPOT . . . a porch enclosed with L·O·F Thermopane for year 'round insulation is a cheerful, healthful place for leisure hours.

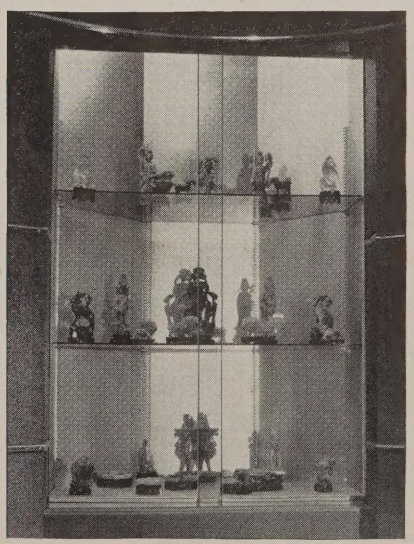


BRING LIGHT THROUGH panels of decorative glass to highlight favorite bric-a-brac.

CAPITALIZE ON THE COLOR of your book bindings . . . and preserve that color by putting clear glass doors on your book cases.

TWO ROOMS FROM ONE is almost as easily done as said, when the partition is of patterned glass panels between the living and dining areas.

FEATURE YOUR KNICKKNACKS on clear, sparkling glass shelves. Sliding glass doors will reduce the number of dustings.

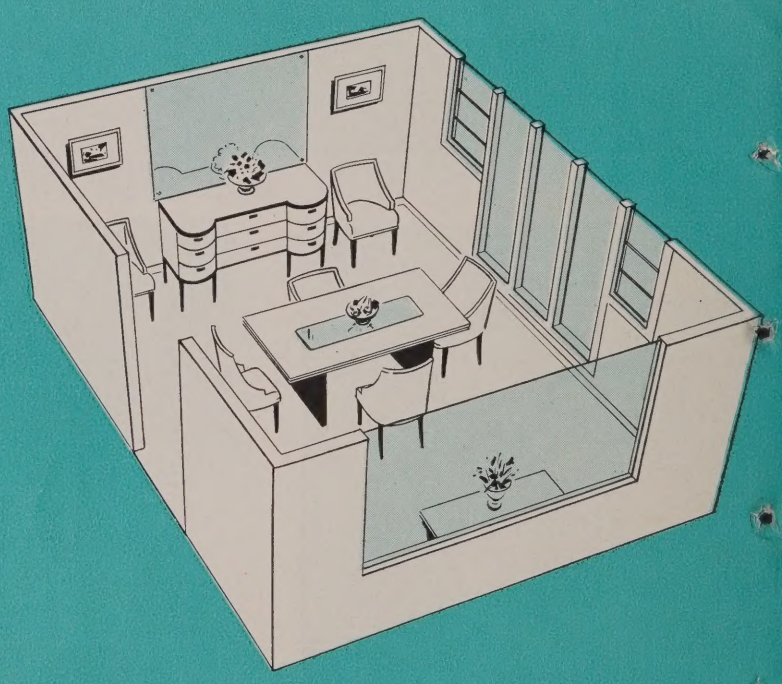


GLASS DECORATES THE Dining room

● Here's a room that fairly begs for light and cheer . . . and there's no better way to get them than with glass. Light and cheer go hand in hand with relaxation, an important element in any enjoyable meal.

● What can glass do for your dining room? Give it a feeling of extra spaciousness with mirrors. Bring in the beauty of the outdoors, through Picture Windows. Flood the room with a soft, flattering light—from fluorescent lamps concealed behind attractive, patterned translucent glass.

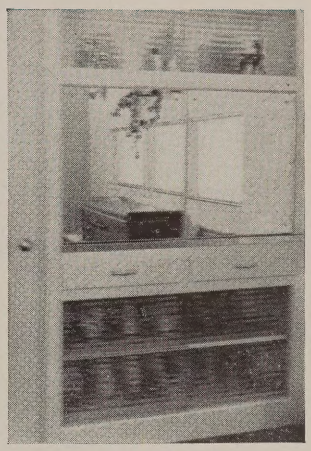
Glass is so decorative! Under candlelight, it sparkles, catches the high lights, casts twinkling reflections. So, as you plan your dining-room, remember to take advantage of the brilliance of glass—to eliminate dark corners and enliven every part of the room. There's almost no end to the ways glass can add charm to your dining room. Perhaps the examples shown here will suggest many ideas that fit into your plans.

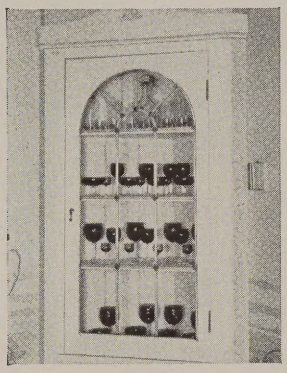


CHANGES OF SCENE come naturally with changes of weather and season, through a huge Picture Window like this. Glazed with Thermopane, it provides insulation that saves heat and adds comfort. The casements open for ventilation.

EXCITINGLY BEAUTIFUL . . . tall door with figured glass panels.

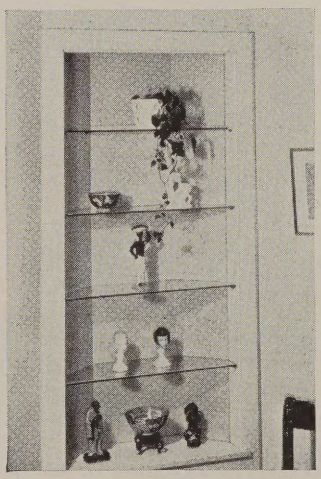
SPARE YOUR ENERGY with a stationary dumbwaiter. Close the mirrored doors, and presto! You'd never suspect there's a kitchen behind. Note the attractive patterned glass windows . . . wonderful light catchers, and ideal where the view's not too good.



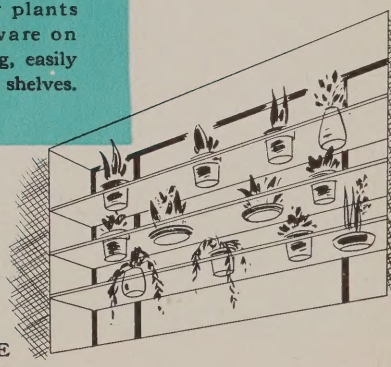


FEWER DUSTINGS are necessary when china cupboards are enclosed with attractive glass doors.

DOUBLE DUTY . . . a gleaming glass partition gives extra charm and brightness to both the dining room and the living room or kitchen on the other side.



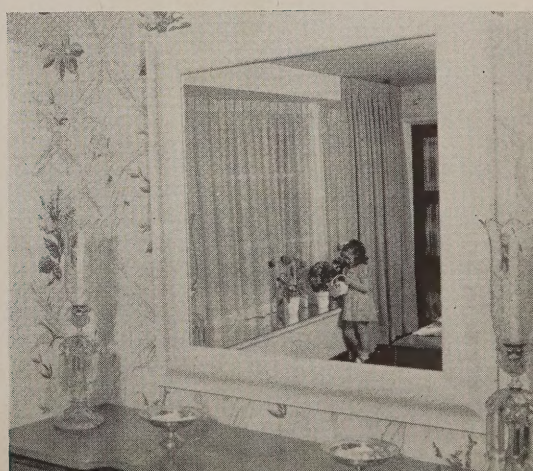
DRESS UP YOUR WINDOWS with gay, pretty plants and glassware on good-looking, easily cleaned glass shelves.



EXTRA SPARKLE for your knickknack display when shelves are clear plate glass.

DOUBLE LOVELINESS in this centerpiece . . . a silvery mirror to reflect the beauty of flowers or baubles. Carry through the sparkling theme and spare the laundry bag with mirror plaques for individual settings.

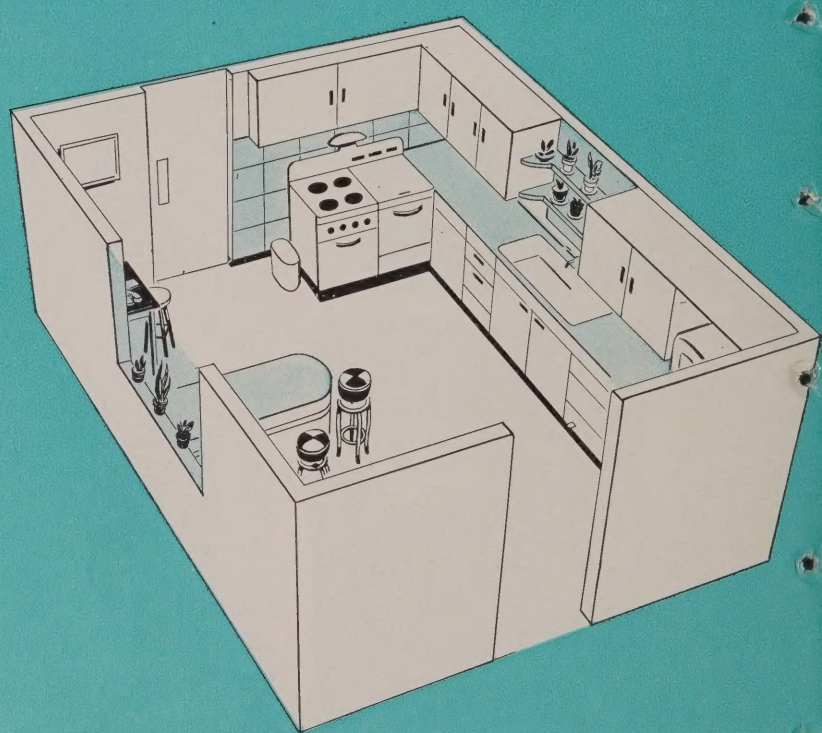
HINT OF GRACIOUS LIVING . . . in the smooth-swept lines and true reflections of this sparkling buffet mirror, made with L·O·F Plate Glass.

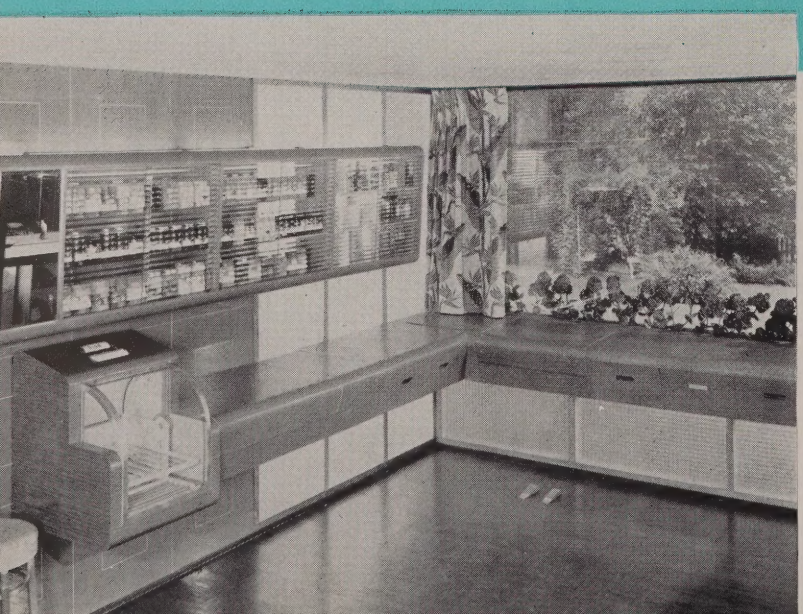


GLASS BRIGHTENS THE Kitchen · · LIGHTENS THE WORK

● Glass is modern . . . not only in its decorative possibilities, but as a work saver as well. It gives luster and color to your kitchen . . . *permanent* luster and color, for glass won't fade or tarnish. And it comes clean with the whisk of a cloth.

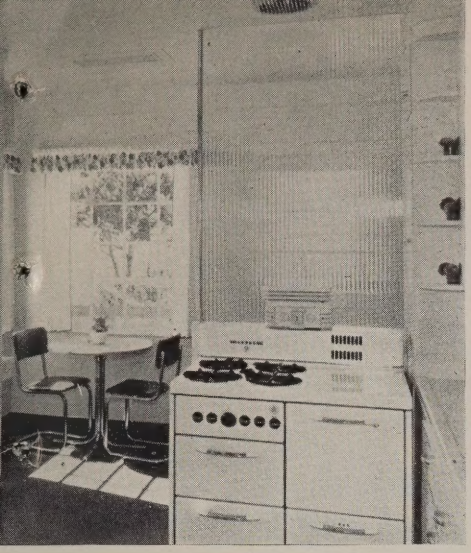
● You'll spend most of your day in the kitchen. Make yours cheerful, light, easy to work in, by opening the walls with glass. Bring in the sunlight and an exciting view of the outdoors. For wainscoting and work surfaces, use Vitrolite, the attractive, colorful structural glass. It gives a sanitary spic-and-span look to your kitchen, and reduces cleaning chores. Glass adds safety in the kitchen because it's noninflammable.



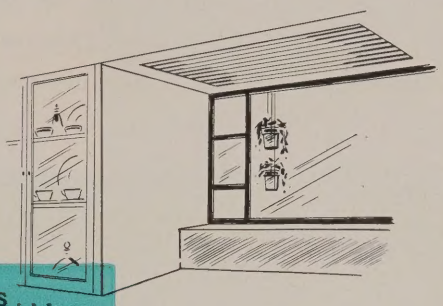


THIS LIGHT, CHEERY KITCHEN uses glass in beautiful and practical ways. The large, clear Picture Window allows enjoyment of the outdoor view. For heat saving and comfort, it's glazed with Thermopane. Work surfaces are flooded with daylight through decorative translucent panels of figured glass. If preferred, these panels could be clear glass, to permit a view of the garden and the flower boxes outside.

The fluted, sliding glass doors eliminate groping for the right jar, and add a decorative note. Shelves, too, are glass—which spares the fuss of endless shelf-paper changing.



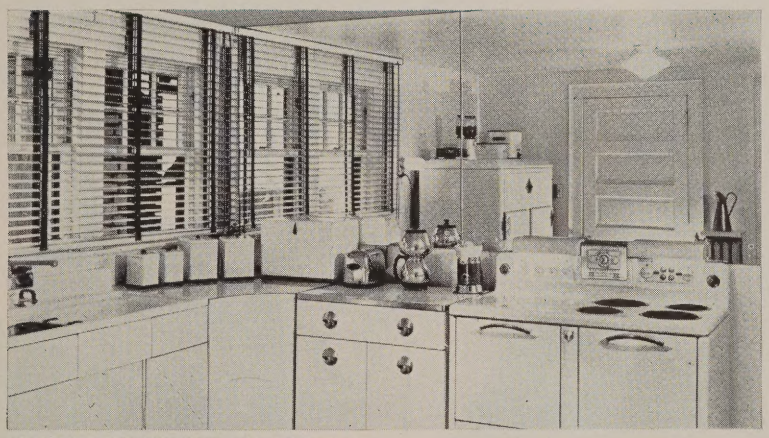
TRANSFORM a corner of your kitchen into a dinette with a tall screen of patterned glass. Grease spots from cooking are no problem on glass.



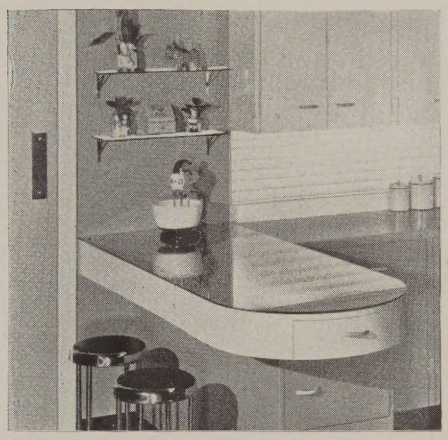
EASY ON THE EYES . . . soft, diffused light from a recessed fixture faced with a patterned glass. Over the sink, it eliminates working in your own shadow.

THERMOPANE stays clear, while flanking single-glazed windows steam up in cold weather. Architect: Herman O. Langenhan, Cleveland, O.

EASY-TO-CLEAN SURFACE for your breakfast bar . . . Vitrolite, in a variety of gay, permanent colors.

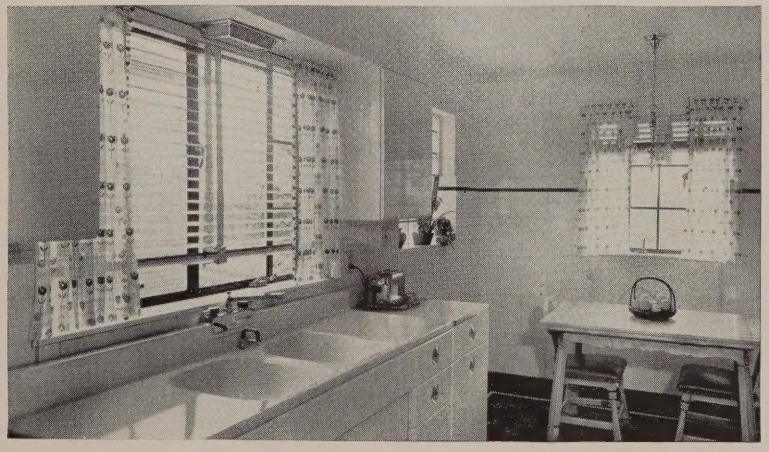


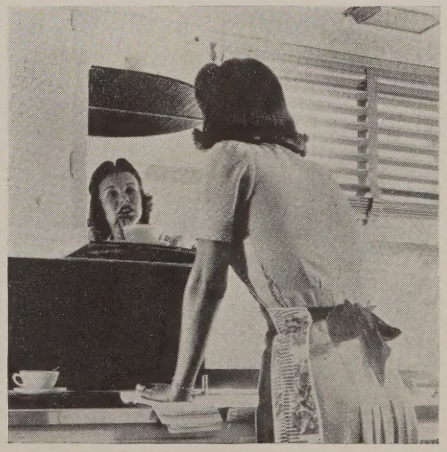
HERE'S WINDOW MAGIC—the brightness and attractiveness of the windows in this kitchen are, in effect, "doubled" with this mirror.



PRETTY AND PRACTICAL . . . Vitrolite wainscoting. Its glistening, colorful finish will not fade or wear off. A swish of the cloth wipes it spotless.

A "PRIMPING MIRROR" for a quick dab of lipstick will pep up your morale.



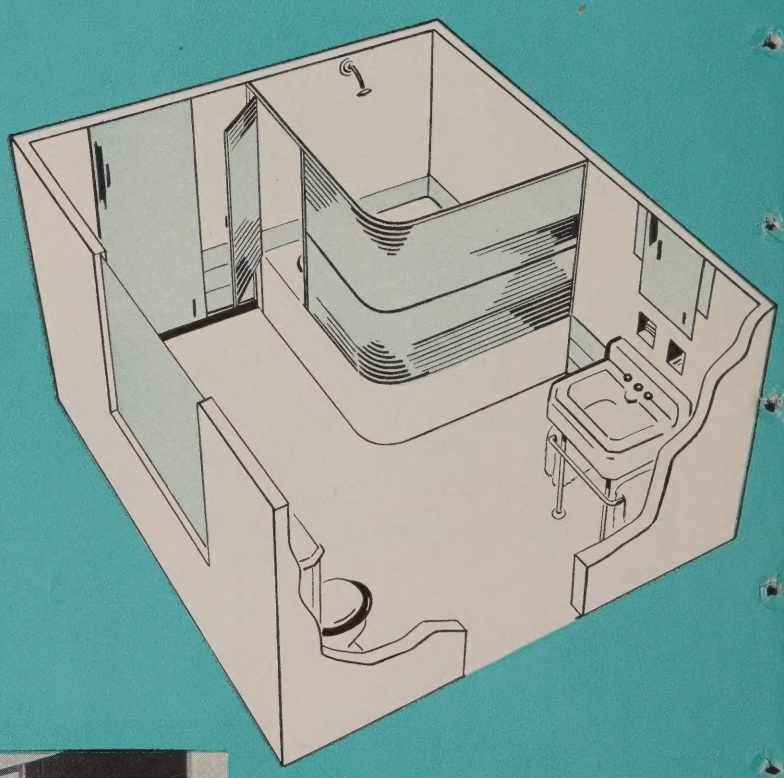


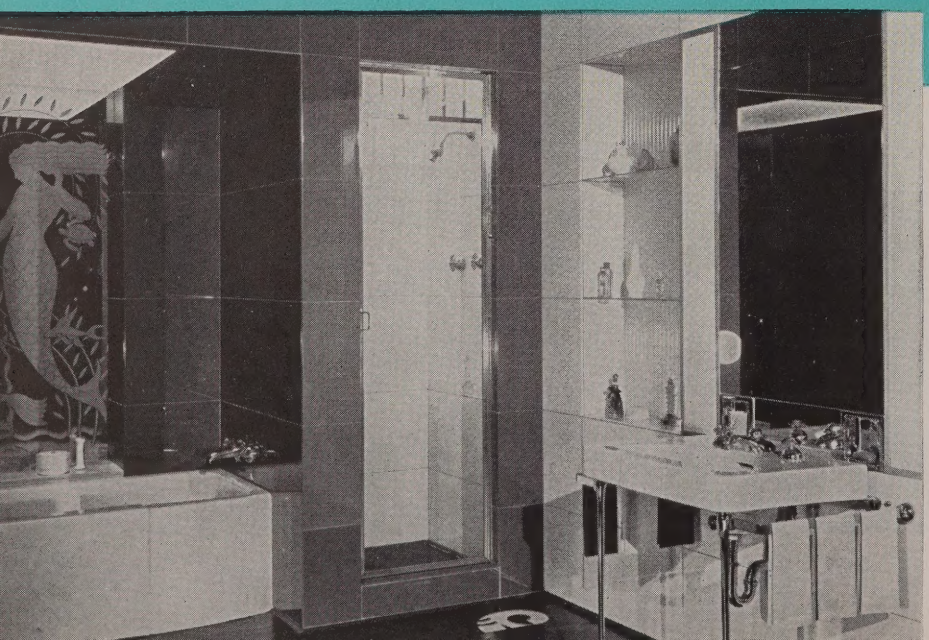
PUT SPARKLE IN THE Bathroom · · WITH GLASS

● You'll want your bathroom not only easy to clean, but clean-looking as well. You'll want it colorful, with a touch of smartness. These are desires you easily can realize by taking advantage of the versatility of modern glass.

● There's a lot of satisfaction in having a cheerful looking bathroom. It's a room that guests always notice—a room which marks your home as up to date or old-fashioned. So, give it sparkle—give it beauty—with glass.

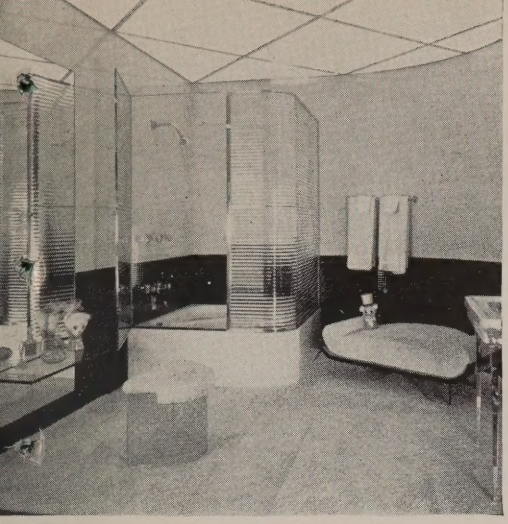
Glass doesn't mind water, spilled lotions or powder. It's a thoroughly practical material for surfaces in the bathroom—walls, shelves, shower stall. And, of course, you'll want an arrangement of mirrors—not only for convenience, but also to "enlarge" what usually is the smallest room in the house.



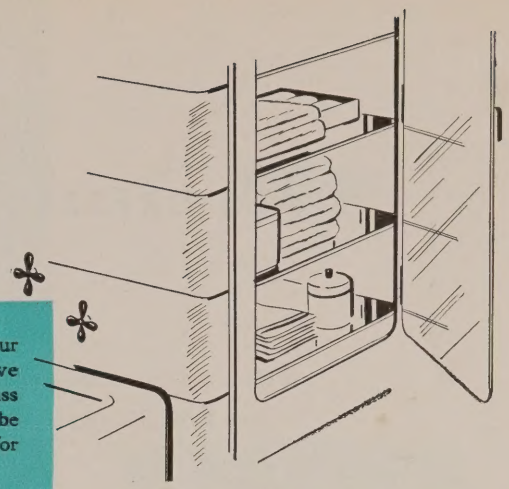


A ROOM TO BE PROUD OF . . . this striking bathroom, with walls of blue and white Vitrolite structural glass. Its lustrous finish always wipes clean, always looks new. The decorative figure is sand-blasted on the Vitrolite wall behind the tub.

The shower stall door is clear glass. Toiletries are arrayed on plate glass shelves, backed by a lovely panel of patterned glass. The large mirror over the washstand aids dressing and shaving, accentuates the beauty of the entire room.



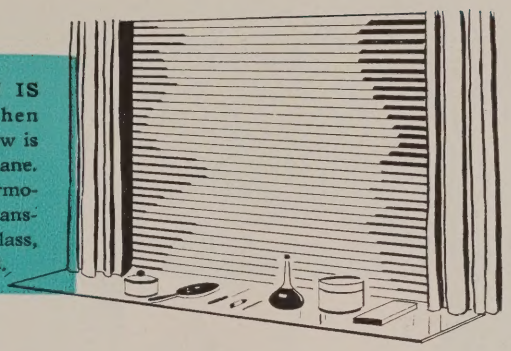
CHARM AND PRACTICALITY join hands in this combination tub and shower. The enclosure provides protection from drafts and keeps water from splashing into the room. Note the full-length mirror . . . a convenience in any bathroom.



ADD THE COLOR of your towels to your decorative scheme. Behind clear glass doors, they'll always be handy. Use clear glass for shelves, too.

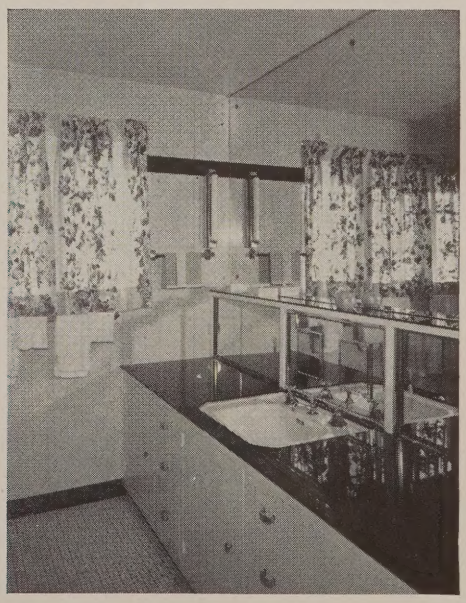
GLASS BRIGHTENS A ROOM . . . gives it extra appeal. This delightful bathroom is flooded with light through panels of Doublex patterned glass. (Photo courtesy of Armstrong Cork Co.)

CONDENSATION IS NO PROBLEM when your bathroom window is glazed with Thermopane. For privacy use Thermopane made with translucent Blue Ridge Glass, described on page 28.



PLEASE YOUR GUESTS with a chic powder room. Provide a plate glass mirror over the washbowl—another over the dressing table.

A HANDY PLACE for shaving things, cosmetics and toiletries . . . this glass shelf over the washstand.



CLEVER THREE-WAY MIRROR . . . it's a practical help in shaving and make-up.

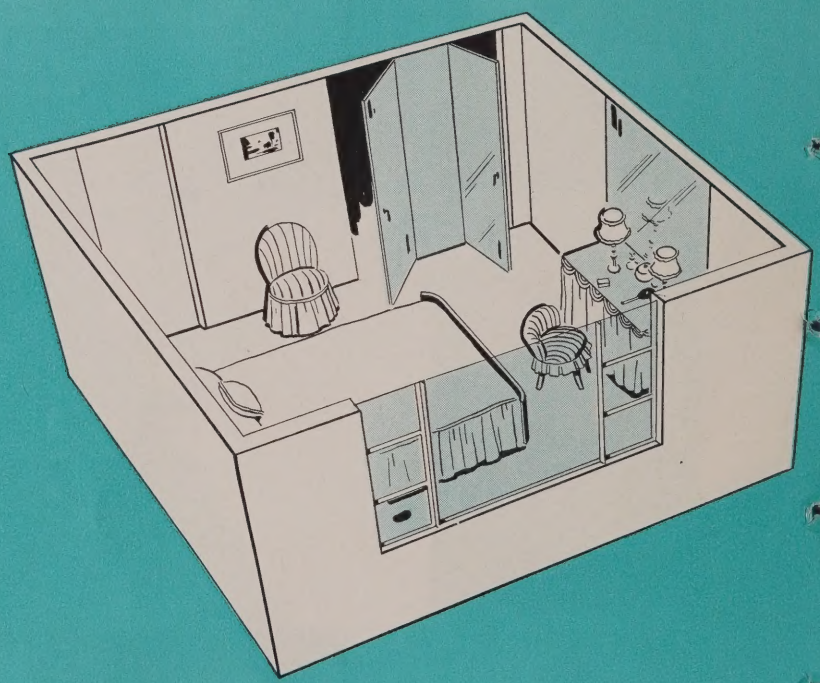
VITROLITE glass walls and counter top in this bathroom come sparkling clean with a whisk of a damp cloth. Large wall mirror doubles the beauty.

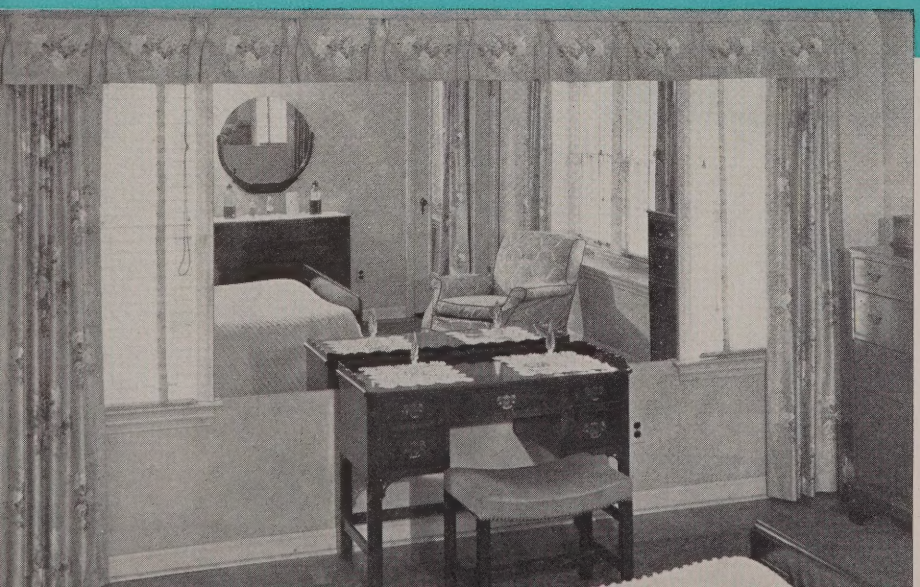
GLASS DRESSES UP THE Bedroom

● Here's a room that calls for the last word in beauty and loveliness . . . and it's a room in which you can use glass effectively in both practical and striking ways.

● You'll probably have windows on two, maybe three, walls of your bedroom. How to brighten up the other walls? Use mirrors. They'll catch the light and color of the outdoors, reflect them into the room. Partitions of Satinol decorative glass offer another novel means of brightening inside walls.

Glass is a versatile decorative material. It has a lustrous, beautiful finish that never loses its charm, never needs renewing. Among the ideas shown on these pages may be just the suggestions you need to "dress up" the bedroom you are planning.

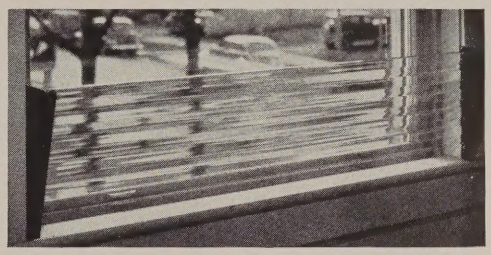




PREVENT DULL WALLS by creating interesting, colorful areas with mirrors. Here a large mirror between the windows reflects the beauty of the entire room. And, in effect, it "doubles" the spaciousness.

A PICTURE WINDOW brings in outdoor beauty. This lovely window is Thermopane, which cuts heat loss, reduces condensation, adds comfort. The casements swing out for ventilation.

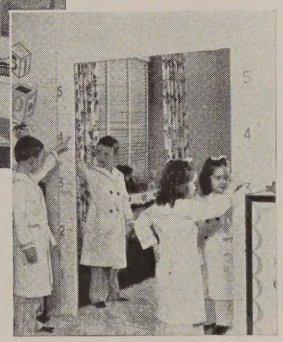
A CLOTHES CLOSET WINDOW will shorten your search for the right dress. Remember, moths don't like a lighted closet. Another tip, a clear glass shelf lets you see what's on it from below.



A GLASS WIND DEFLECTOR will prevent direct drafts from an open window. Made of glass, it won't keep out daylight.

DOES IT MATCH? Your daughter will welcome a good mirror, handy for trying on the latest fad.

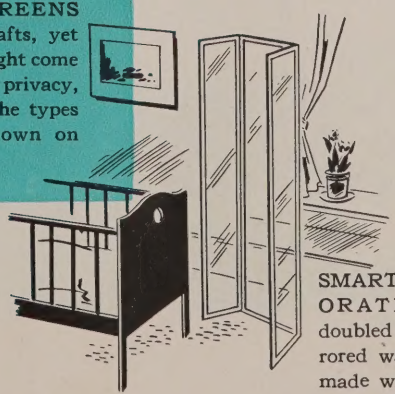
SMART IDEA—if shortage of wall space makes a large vanity impractical, attach a shelf and mirror inside the closet door.



TEACHING PROPER GROOMING is easier when children have their own mirrors. Make them proud of their appearance—and their rooms—with mirrors.

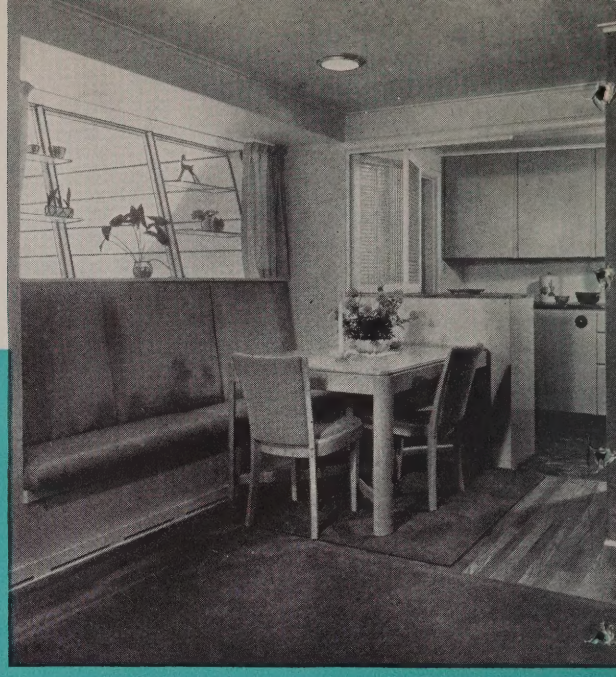
HOW DO YOU LOOK before the guests arrive? Find out—with a three-way full-length mirror that gives you an all-over view.

GLASS SCREENS ward off drafts, yet they do let light come through. For privacy, use one of the types of glass shown on page 28.



SMART DECORATION is doubled in mirrored wall . . . made with L·O·F Polished Plate Glass for truer reflections. Plate glass vanity top adds sparkle that's practical . . . cosmetics don't harm glass.

MAKE THE BREAKFAST ROOM A CHEERFUL SPOT WITH Glass



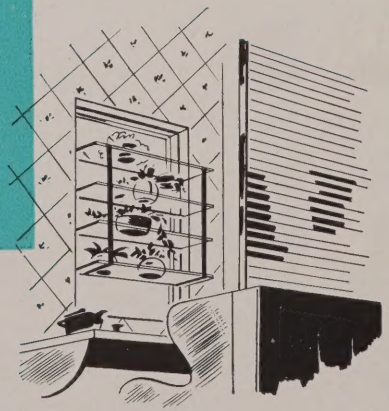
THIS WALL DOES DOUBLE DUTY, as a space for a built-in seat and also a window. Slanting the bay out at the top makes the room larger . . . gives the dinette a "different" look. The folding decorative glass screen, when closed, separates kitchen from dining space.

START YOUR DAYS right . . . enjoy outdoor views with your toast and coffee. When Picture Windows are Thermopane, you'll be sure of extra comfort . . . Thermopane reduces downdrafts, cuts heat loss.

HOT COFFEE CAN'T HARM the lustrous beauty of a Vitrolite table top. Dirt and finger prints wipe off with a sweep of a damp cloth.

CHARM AND UTILITY are combined in these sparkling glass shelves enclosed by sliding glass doors.

SMART LITTLE SHELVES provide an added touch of color when they hold flowers and favorite knick-knacks.



AN IDEAL SPOT FOR FLOWERS is this window sill of L·O·F Vitrolite. Water or dirt do not harm this colorful glass.

MORE FUN · · IN A ROOM THAT'S "PEPPED-UP" WITH Glass

FUN AND RECREATION for your guests right next to your living room. This partition of fluted glass adds light and cheerfulness to two rooms, shuts off noise, and is decorative.

ADD GAIETY to parties with a colorful Vitrolite bar. Defies scuff marks, spilled drinks, burning cigarettes . . . wipes clean.

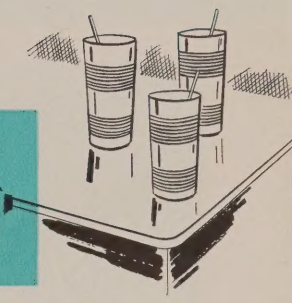
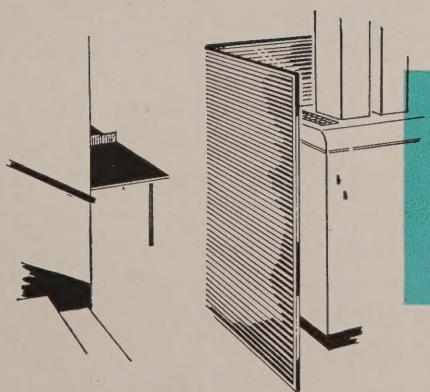


TABLE TOPS OF GLASS can take it. For extra toughness, use Tuf-flex, the tempered glass.

SHOW OFF your cocktail glasses and clever knickknacks on clear, handsome glass shelves.

ENJOY PRIVACY and still have the cheerfulness of daylight, with windows of patterned glass.

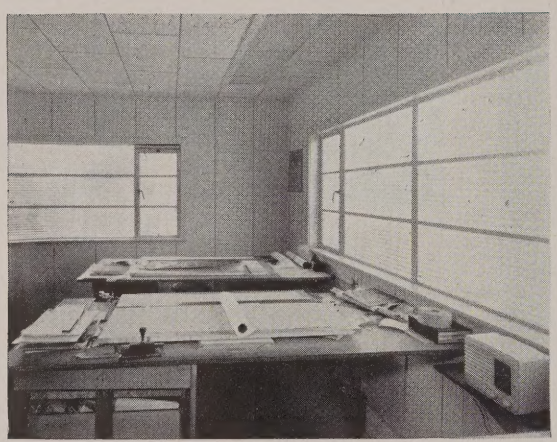


DISGUISE THAT "BASEMENT LOOK" in your recreation room. Hide the furnace behind a good-looking screen of decorative glass. Noninflammable, of course.

More Ideas

TO ADD THAT "CERTAIN SOMETHING" TO YOUR HOME WITH Glass

SMUDGES WIPE OFF with just the flick of a cloth when doors and walls are protected with glass plates . . . excellent for children's rooms.



FOR THE MAN WHO WORKS AT HOME, a room like this, with windows of translucent glass is ideal. Here he can have privacy, plus the cheerfulness of diffused daylight.

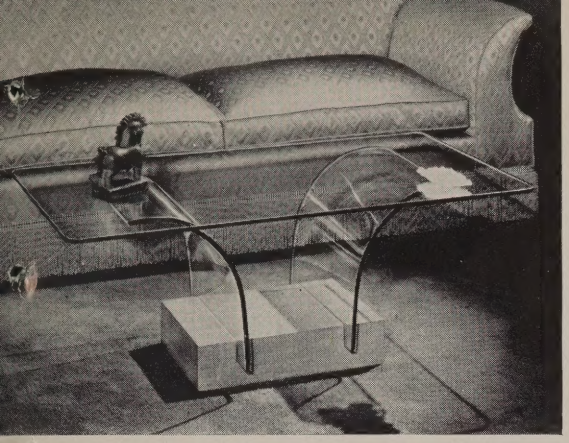
HINTS ON CLEANING GLASS

● The enduring, sparkling surface of glass is one of its most decorative qualities. To keep it clean and bright with the greatest ease, it is recommended that you use a solvent cleaner with a soft, absorbent cloth. Many solvent cleaners for glass are sold at drug, grocery and hardware stores. Use them in preference to any cleaner that contains abrasive material.

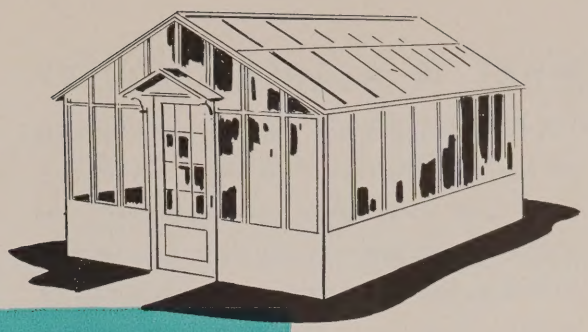
To remove hardened paint spots, first wash the glass thoroughly. Then use a new razor blade, cutting under the spot carefully. Do not cut with the corner of the blade.

To remove labels from glass, soak them thoroughly with a wet cloth first. Never use even the finest textured emery or sandpaper for this purpose.

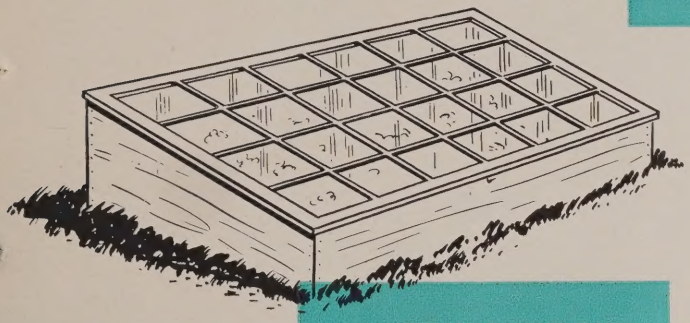
A SPECIAL BEAUTY SPOT for your home . . . a sun porch lined with thriving plants. Glass shelves take much of the muss and fuss out of flower growing. They won't stain, and a damp cloth wipes them clean in a jiffy. For protection from cold, make the windowpanes Thermopane, the L·O·F glass that insulates while letting the sun beam through.



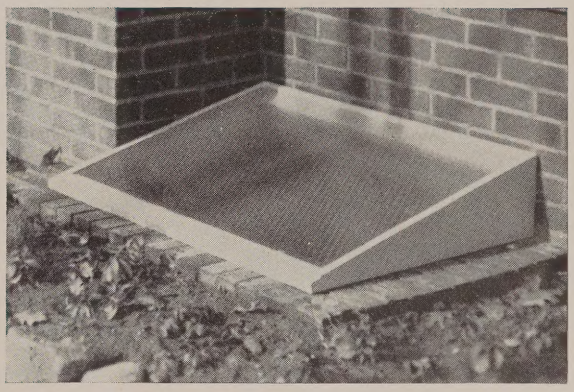
DISTINCTIVELY MODERN furniture of glass can enhance the beauty of your home. It's as sturdy as it is lovely.



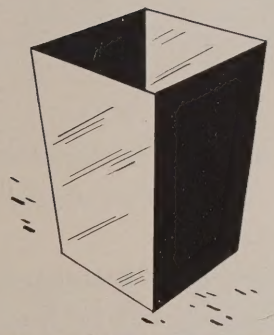
ENJOY FRESH VEGETABLES at the table all year long, from your own miniature greenhouse.



REAP EARLY DIVIDENDS from your garden by toughening young flower and vegetable plants in a cold frame.



A GLASS COVER helps keep dirt and leaves out of basement window wells without shutting out light.



A BIT OF GLITTER for any room . . . a mirrored waste basket adds a decorative note.

SKYLIGHTED LIBRARY can be created in an attic . . . with panels of Patterned Glass to provide glareless light. Good idea for a studio or fun room, too.

OUTDOOR-INDOOR living room can be created from your porch by enclosing it with Thermopane. This double-glass insulating windowpane lets you enjoy your lawn and garden all year in greater comfort.

NEW TRENDS TOWARD MORE ENJOYABLE LIVING WITH Solar Housing

WHAT IS A SOLAR HOUSE?

A Solar House is any dwelling which permits the warming heat rays of the winter sun to penetrate large glass areas and supplement the normal heating system's functions, but, through its design, excludes the sun's rays in hot months. A Solar House can be any one of many types of architecture that give special attention to control and utilization of the sun's heat rays.

Generally speaking, a Solar House faces to the south. Such orientation permits more accurate control of the sun's rays—enables the owner to take full advantage of walls opened up with glass. These glass walls are able *to trap sun heat* once its rays have penetrated the glass, because their wave lengths are altered.

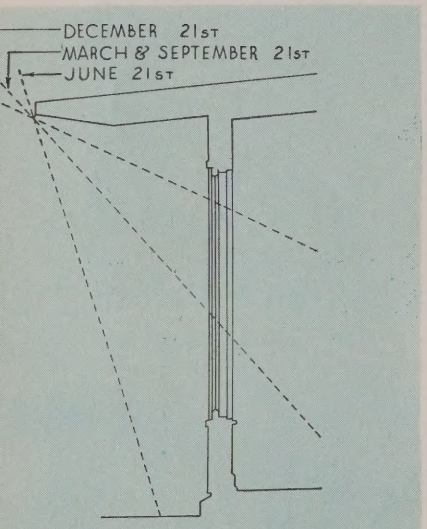
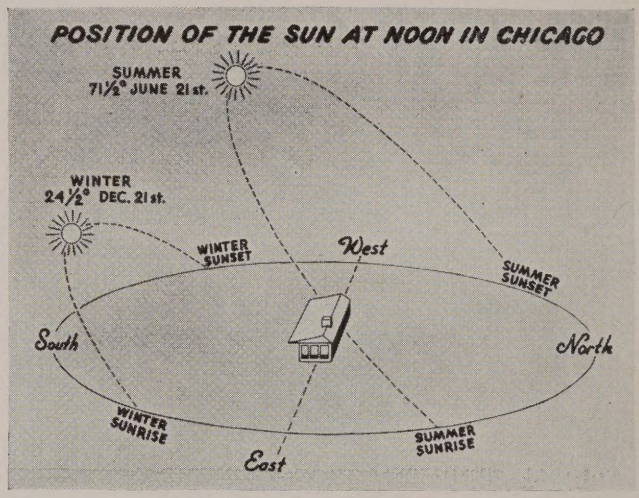


DIAGRAM OF SUN ANGLES FOR CHICAGO LATITUDE

To utilize the sun's rays, some means of keeping out its excessive heat in summer and permitting its entrance in winter months is necessary. This diagram shows how the roof overhang or sun visor excludes direct sun rays from the house interior from June through August.

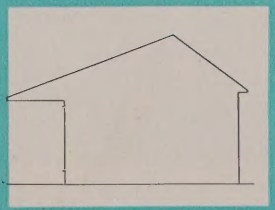


The above diagram explains the fundamental principle of utilizing the sun's heat rays in winter. At the left, the *lowered* path of the winter sun permits the rays to penetrate into the living quarters. Above is shown the sun's path in summer—high overhead—and the roof visor which keeps out the extra sun heat.

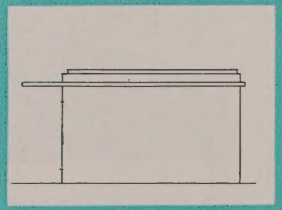
● In Solar Houses control of the sun rays is accomplished by a Sun Visor, roof overhang or some other physical means of shutting out the summer sun.

There are several types of roof extensions as indicated in the panel of sketches below. Their purpose is the same, whether a smartly tilted roof overhang, extended straight roof, or a framework of evenly spaced grilles.

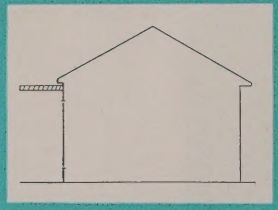
TYPES OF SUN VISORS



In effect, a conventional porch employs the Solar principle of a visor. The roof line of this house is extended in order to shade the glass area in summer.

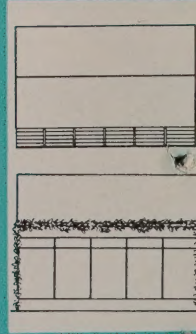


This built-up roof departs slightly from conventional hip-roof design. Note the extended visor which admits sun rays in cold seasons but precludes sun heat in summer.



Added to a conventionally-styled roof is this extended lattice-type visor. It frames a series of horizontal louvers, the angles of which exclude the summer sun.

(*Above*) Looking down on the lattice-type visor of the house at the left. (*Below*) Front view of this type of roof overhang, with vines that bar entrance of summer sun.

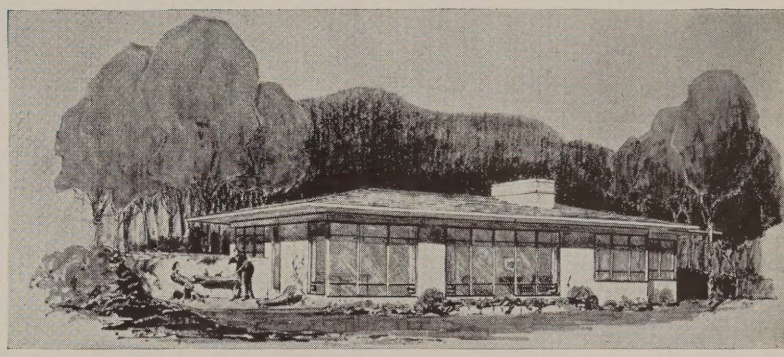


Solar Housing

OPENS UP HOUSE WALLS

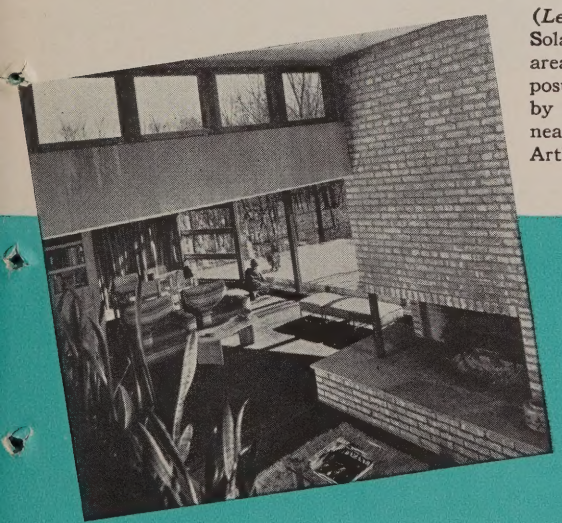
● Regardless of the type of Sun Visor employed, any Solar House makes use of a broad expanse of glass through which the warming rays of the winter sun are transmitted. Obviously, ordinary glass would permit the escape of heat during hours of darkness, so most architects and builders employ Thermopane—the new Libbey·Owens·Ford insulating windowpane described on page 22.

(*Right*) This more conventional house design by Architect T. Y. Hewlett provides a modern wall of glass for southern exposure with an extension of the conventional roof line.



(*Below*) The sun wall of a Solar House designed by Architect George Fred Keck. Note the full expanse of glass in the southern exposure.

Actually, Thermopane makes possible a far greater use of glass than heretofore has been possible, due to its exceptional insulating property. By "opening up" the walls of a house, an entirely different atmosphere is created—a new trend toward more enjoyable living—which was first introduced in the original Solar Houses. No matter what design you may select for your home, you can have the benefit of a new, refreshing outlook on life by utilizing the Solar House principle with walls of insulating glass.



(*Left*) In this outstanding Solar House, large window areas on the southern exposure are supplemented by *clerestory windows*, near the ceiling. Architect, Arthur Purdy.

(*Right*) In this open-plan design, the huge Thermopane windows serve as a "wall of glass"—opening up the house to the year-round beauty of outdoors.

Thermopane

Reg. U. S. Pat. Off.

L·O·F INSULATING WINDOW PANE . . . .

● Climaxing over fourteen years of research, L·O·F *Thermopane* is the first successful windowpane ever made with built-in insulation.

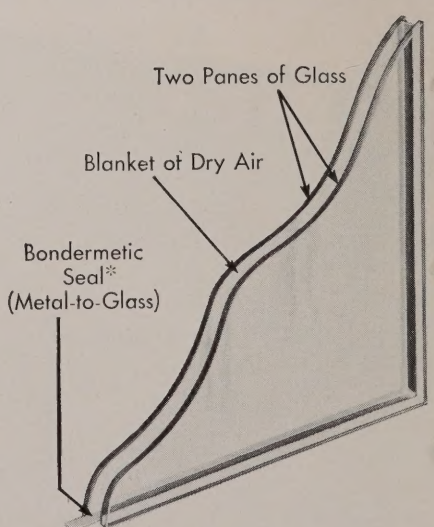
Thermopane is made of two or more panes of glass, separated by an insulating layer of dehydrated air, and sealed around the edges at the factory with a patented metal-to-glass bond — the *Bondermetic Seal*. This seal has successfully withstood a shearing force of over 1,000 pounds per square inch—proof of its amazing strength.

Until the advent of Thermopane, large window areas were generally conceded to be impractical in temperate and cold climates because of excessive heat losses. Because of its double-glass construction, *Thermopane* keeps homes warmer in winter and cooler in summer. In addition to reducing heating costs and providing savings in air conditioning, *Thermopane* deadens the transmission of outside noises.

Rooms look larger . . . seem to stretch out to include the outdoors, through Picture Windows. Glazed with Thermopane, large windows assure greater comfort. This insulating unit cuts heat loss and reduces downdrafts at windows . . . saves fuel in winter. In summer, Thermopane helps keep rooms cooler.

12 Points TO REMEMBER ABOUT Thermopane

1. Reduces heat loss through glass—saves fuel.
2. Reduces downdrafts at windows.
3. Is a metal-to-glass welded insulating unit.
4. Provides the benefits of storm sash without the bother.
5. Offers year-round double-glass protection.
6. Is suitable for all window openings.
7. Increases efficiency of air-conditioning equipment.
8. Reduces possibility of condensation.
9. Enables maintenance of uniform temperatures.
10. Reduces transmission of noise.
11. Provides day-by-day health and comfort benefits.
12. Is installed in a sash similarly to a single pane.



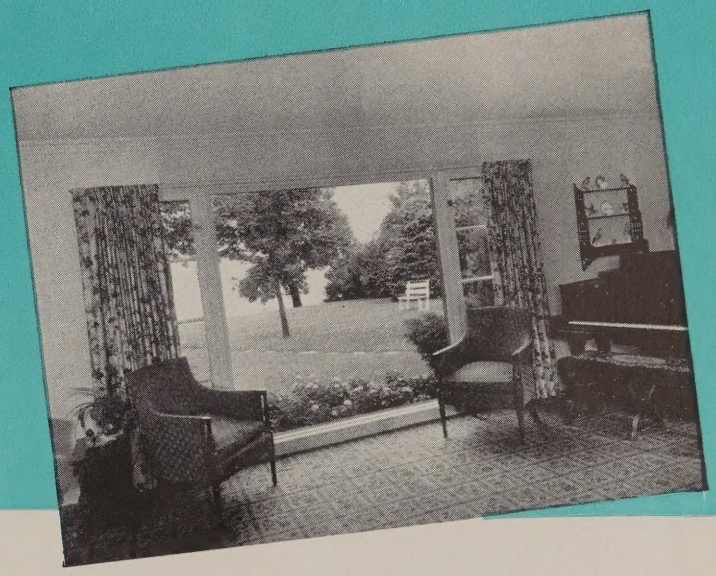
Cutaway view of Thermopane

MAKES PRACTICAL

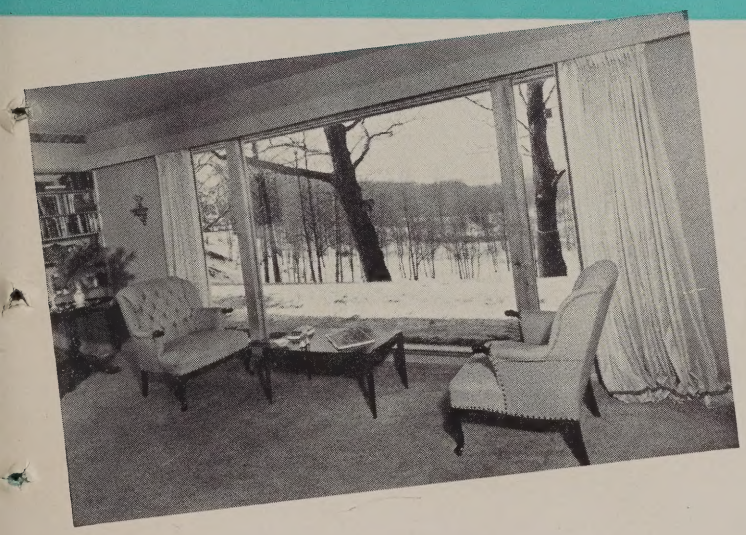
Larger Windows

WITHOUT EXCESSIVE HEAT LOSSES

Right: Enjoy beauty that changes each season . . . through Picture Windows glazed with Thermopane to assure greater comfort all year in all climates.



Below: In this Michigan home, winter beauty comes indoors through expanse of insulating Thermopane. Architect: Irving E. Palmquist, Detroit.



SPECIAL GLASSES IN THERMOPANE

● Thermopane may be fabricated with a special purpose glass on the outside. Heat Absorbing Glass keeps rooms cooler in summer; Golden Plate Glass protects against sun fading; colored Plate Glass gives unusual effects. And, where it is desirable to obscure views, Thermopane may be fabricated with Blue Ridge Patterned Glass.

THERMOPANE...FOR EVERY WINDOW IN YOUR HOME

● All the windows in your home can be self-insulating . . . with Thermopane. It's made in a wide range of standard sizes to fit casements, double-hung and fixed Picture Windows. You can use Thermopane in all the window styles shown on Page 2 of this book, as well as in doors, side-lights and transoms.

Thermopane provides double-glazing in the most practical and convenient form. It stays in all year. Your windows open and close just like single-glazed ones. You need no storm sash.

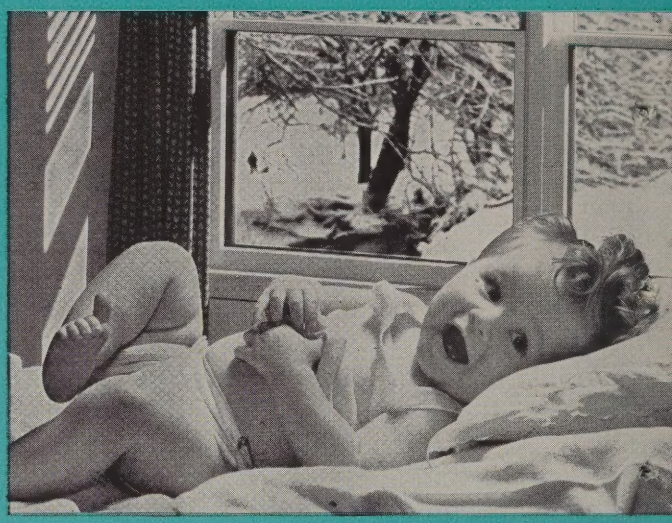
Ready-made Sash for Thermopane

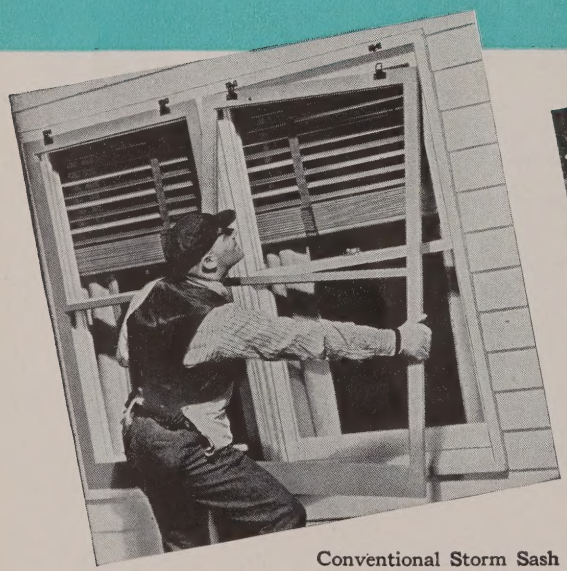
Standard windows suitable for Thermopane are being made by manufacturers of wood and metal sash. They are available from lumber and building supply dealers. Sash for Thermopane can be installed in your home as easily as ordinary windows . . . offer no problems to your builder.

Window conditioning

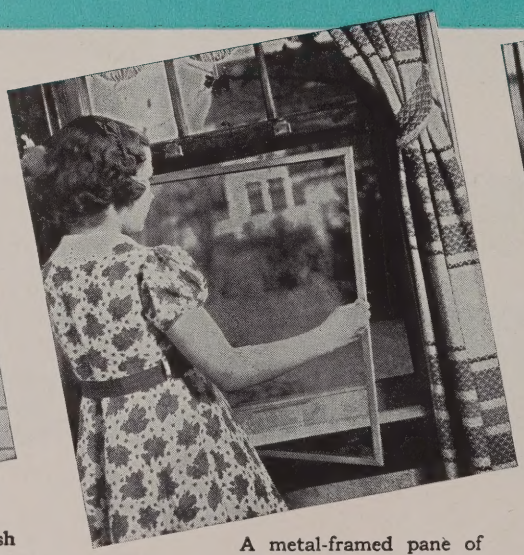
FOR GREATER COMFORT FULL ECONOMY AND HEALTH

● Just as an individual needs additional clothing as protection against cold weather, so can homes benefit by Window Conditioning—the addition of Storm Sash. Government experts declare that from 25 to 30 per cent savings in fuel may be had by the addition of Storm Sash alone.

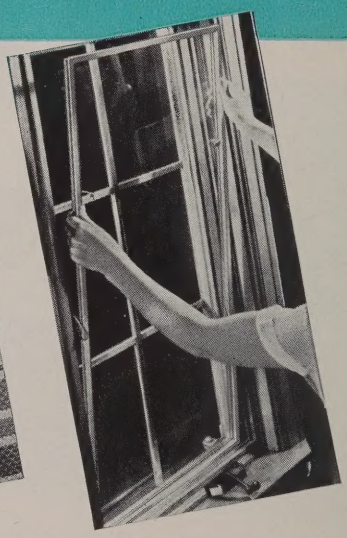




Conventional Storm Sash are inexpensive and effective against heat losses.



A metal-framed pane of glass, installed from inside a double-hung window retards heat escape.



Interchangeable Storm Sash and screens for casement windows assure greater satisfaction the year-round.

● Complete Window Conditioning for your home will provide far greater comfort . . . will help eliminate floor drafts . . . and will help your pocketbook in fuel saved. Since heat always flows from a warm to a cold object, interior heat in the house not fitted with extra sash passes to the outside cold winter air. Double-glass insulation keeps your heat *inside*. Investigate the savings and health advantages of double glass insulation.

L·O·F POLISHED PLATE GLASS

● For fine Picture Windows and mirrors there is no substitute for Polished Plate Glass. This glass is ground and polished with the objective of making both sides flat and parallel, thus providing clear vision with a minimum of distortion. Picture Windows provide clear visibility when made of Polished Plate Glass. The extreme flatness of this glass is even more important in fine mirrors, for surface irregularities and distortion of regular glass are absent. This flatness and freedom from distortion are two of the reasons why Polished Plate Glass is invariably selected for display windows in stores and shops.

L·O·F TUF-FLEX GLASS

● Tuf-flex is plate glass that has been treated by a special tempering process to give it greater resistance to physical and thermal shock. Tuf-flex is widely used in stores as doors and stair rails. Its greater strength may also be of interest to home owners, for it adds safety wherever glass might be banged or exposed to intensive heat.

L·O·F HIGH-QUALITY WINDOW GLASS

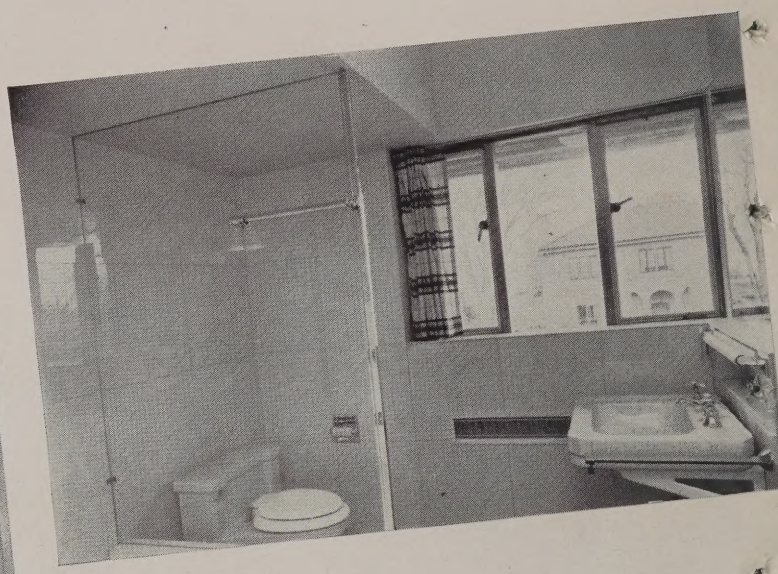
● Libbey-Owens-Ford Window Glass is exceptionally clear, and has a natural fire-finished surface in which distortion is held to a minimum. It is made by an exclusive Flat Drawn Process which produces a clear, bright glass of unusual flatness. Due to the longer annealing process employed, L·O·F High-Quality Glass is less brittle, and can be cut much easier with less breakage. For windows, doors, storm sash, and in cabinet fronts and shelving, it has proved its merit. The well-known L·O·F Window Glass label is your guarantee of the best in window glass.

FOR COLORFUL, SANITARY FIRE-PROOF, EASY-TO-CLEAN WALLS

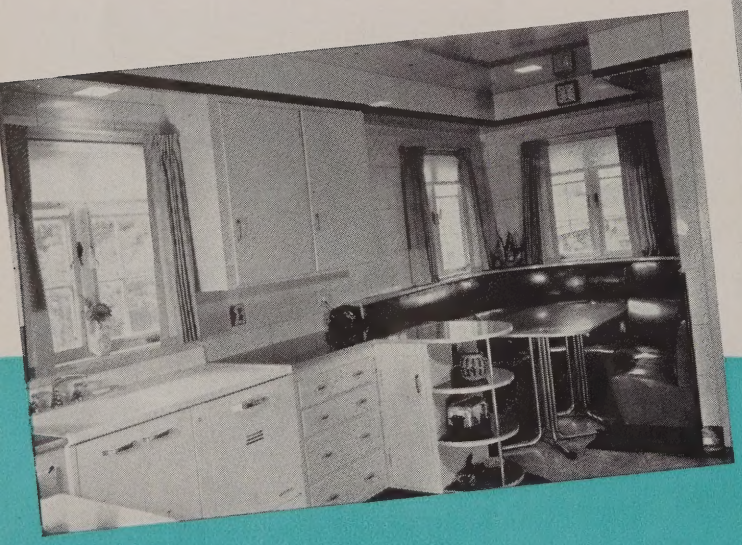
Vitrolite

Reg. U. S. Pat. Off.

● No other interior-finish material is more suitable to the private home—particularly in bathroom and kitchen—than Vitrolite structural glass. Its highly polished surface is "smooth as glass" for it *is* glass! Vitrolite, while opaque, is available in a variety of colors that lend themselves to any decorative scheme. It is unaffected by ordinary household acids and alkalis . . . resists scratching and marking, and is easily and quickly cleaned with the whisk of a damp cloth. Vitrolite never needs resurfacing.



Vitrolite is ideal for walls in bathrooms because it cleans so easily. Because of its nonporous surface, it provides no hiding place for germs . . . and is resistant to water and other liquids.



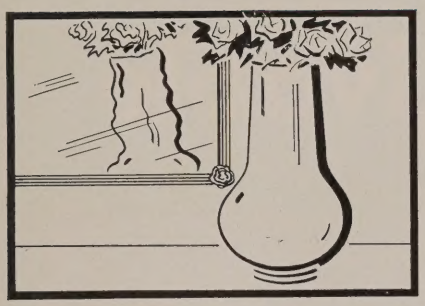
Smooth, sparkling and colorful, Vitrolite kitchen walls are easily cleaned . . . unaffected by moisture and odors. The smart appearance of these walls is a a source of pride to any housewife.

QUICKLY CLEANED WITH A DAMP CLOTH

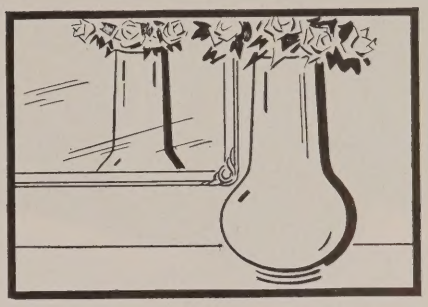
● The hard, smooth surface of Vitrolite makes it exceptionally easy to clean and keep clean. All that's needed is a quick once-over with a damp cloth or, if badly soiled, washing with mild soap and water. Because of the many colors available, practically any color scheme can be worked out for kitchens and bathrooms.

THE BEST MIRRORS ARE MADE WITH

L·O·F POLISHED PLATE GLASS



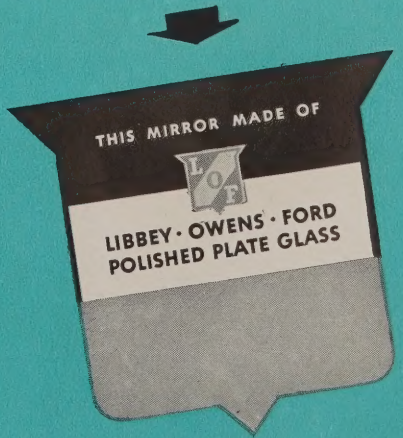
You can quickly check the quality of a mirror by noting the correctness of its reflections. At the left, inferior glass reflects irregular lines—causes distortion. At the right, a good mirror made with Polished Plate Glass has true reflections.



● The finer mirrors are always made of Polished Plate Glass because this kind of glass gives clearer, truer reflections and greater brilliance. At the left, an unframed mirror of L·O·F Polished Plate Glass makes a narrow dining room look wider and adds never-fading sparkle. Libbey·Owens·Ford high-quality Polished Plate Glass is used by many of the country's finer mirror manufacturers. Some homeowners and many specialty shops and department store owners prefer colored mirrors. Libbey·Owens·Ford makes Polished Plate Glass in a variety of colors. If you desire mirrors of colored plate glass, your local L·O·F Distributor, your architect or interior decorator will make color recommendations.

THIS LABEL IS YOUR GUARANTEE OF TOP-QUALITY MIRRORS

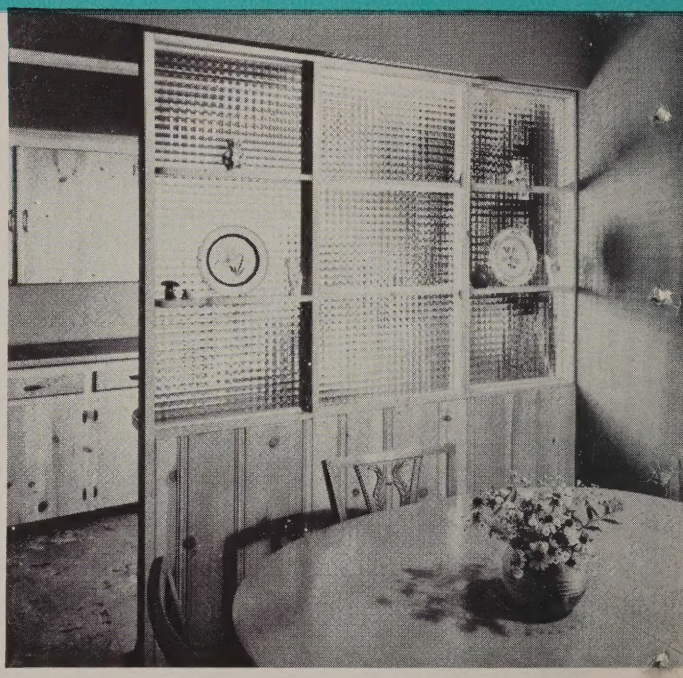
● To protect the buyers of mirrors, Libbey·Owens·Ford has developed this Mirror Label. By agreement with mirror manufacturers using L·O·F Polished Plate Glass, this red, white and blue identification label appears on all such mirrors made with our glass. It is a symbol of protection. Whenever you buy a mirror, be sure that it bears this shield of quality, featured by better department and furniture stores everywhere.



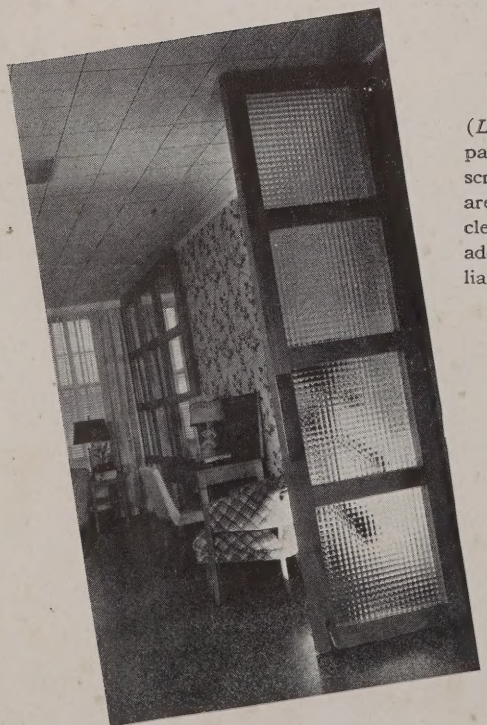
Decorative Glass

TO MAKE YOUR HOUSE BRIGHTER AND MORE Livable

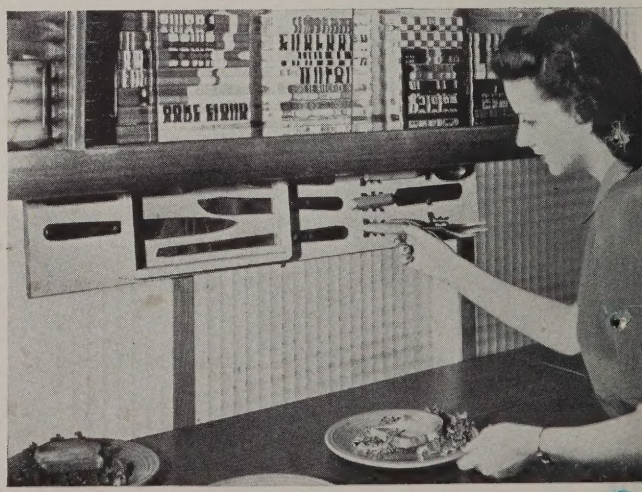
● Lighter, brighter and more sparkling interiors are easily possible in homes of any price range through the use of Blue Ridge decorative glasses. These translucent glasses add character and quality to otherwise plain interiors. Whether used as screens to glaze windows against an undesirable view, or to transmit light to otherwise dark areas while adding a decorative touch, Blue Ridge figured glasses are entirely in keeping with an architect's or decorator's concept of beauty and utility.



Smartly patterned Blue Ridge Glass not only adds a touch of beauty but transmits light to this room.



(*Left*) Another use for patterned glass—as a screen to separate one area from another. Here, clear Doublex is used, adding sparkle and brilliance to rooms.



(*Right*) Lighting experts have stressed the value of better illumination in the kitchen. Here's a trick to put light *on the work surfaces* where it's needed, by glazing with Doublex figured glass with Satinol finish.

AVERY CLASSICS

SEE YOUR ARCHITECT FOR BUILDING SATISFACTION

● There is no surer way for a homeowner to assure satisfaction for himself and his family than to employ a reliable architect.

Architectural services represent a guarantee to the homeowner of serviceable design, good workmanship and quality materials. An accredited architect is a specialist in his chosen field . . . knows building materials . . . recognizes quality and design . . . and is familiar with local building practices. In home construction he is responsible to the home investor.

Libbey·Owens·Ford does not design homes or buildings, but we recommend that, before you build, you obtain the services of a competent architect to protect your investment and assure you top quality in materials and construction.

SEE YOUR L·O·F DISTRIBUTOR FOR THE RIGHT KIND OF Glass FOR YOUR HOME

● Just as you depend on your hardware dealer as a source of supply for hardware items, so can you depend on your local Libbey·Owens·Ford Distributor for all kinds of flat glass items. He is acquainted with your architect . . . and your architect is acquainted with an L·O·F Distributor's product services. He will be glad to offer suggestions . . . will show you samples of the specialty glasses which daily are becoming more important to good home construction. Regardless of the type of home you expect to build, feel free to consult your Libbey·Owens·Ford Distributor for any information or help you may need in selecting the right kind of glass.

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